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<input type="checkbox"/>	L9 L8 and (content near (file or files or folder or folders))	330
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<input type="checkbox"/>	L5 ((set-top or (set adj1 top)) with ((broadcast adj1 file adj1 system) or bfs))	18
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1 **[IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)**



Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)

2 **[Distributed file systems: concepts and examples](#)**



Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

3 **[Fast detection of communication patterns in distributed executions](#)**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex

w/ 189,191

and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 The multics system: an examination of its structure

Elliott I. Organick
January 1972 Book

Publisher: MIT Press

Full text available:  [pdf\(23.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This volume provides an overview of the Multics system developed at M.I.T.--a time-shared, general purpose utility like system with third-generation software. The advantage that this new system has over its predecessors lies in its expanded capacity to manipulate and file information on several levels and to police and control access to data in its various files. On the invitation of M.I.T.'s Project MAC, Elliott Organick developed over a period of years an explanation of the workings, concep ...

5 Pen computing: a technology overview and a vision

 André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

6 Design and evaluation of a wide-area event notification service

 Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf
August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

7 Handling Heterogeneity in Shared-Disk File Systems

Changxun Wu, Randal Burns
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available:  [pdf\(268.40 KB\)](#) Additional Information: [full citation](#), [abstract](#)

We develop and evaluate a system for load management in shared-disk file systems built on clusters of heterogeneous computers. The system generalizes load balancing and server provisioning. It balances file metadata workload by moving file sets among cluster


server nodes. It also responds to changing server resources that arise from failure and recovery and dynamically adding or removing servers. The system is adaptive and self-managing. It operates without any a-priori knowledge of workload pro ...

8 Applications on the go: MediaAlert - a broadcast video monitoring and alerting system for mobile users

Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David Gibbon, Zhu Liu, Behzad Shahraray

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  [pdf\(593.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present a system for automatic monitoring and timely dissemination of multimedia information to a range of mobile information appliances based on each user's interest profile. Multimedia processing algorithms detect and isolate relevant video segments from over twenty television broadcast programs based on a collection of words and phrases specified by the user. Content repurposing techniques are then used to convert the information into a form that is suitable for delivery to the user's mobile ...

Keywords: alerting, automatic speech recognition (ASR), content adaptation, content repurposing, mobile devices, multimedia messaging, multimedia processing, news monitoring, notification, service platform

9 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**

Publisher: ACM Press

Full text available:  [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

10 A dynamic view-oriented group communication service

Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing PODC '98**

Publisher: ACM Press


Full text available:  [pdf\(3.91 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Macintosh human interface guidelines

Apple Computer, Inc.

January 1992 Book

Publisher: Addison-Wesley Publishing Company

Full text available:  [pdf\(37.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Macintosh Human Interface Guidelines describes the way to create products that optimize the interaction between people and Macintosh computers. It explains the whys and hows of the Macintosh interface in general terms and specific details.

Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh interface to the actual implementation of interface elements. Examples from a wide range

of Macintosh products show good human interface design, including individ ...

12 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining



Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: [pdf\(341.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

13 Classics in software engineering

January 1979 Divisible Book

Publisher: Yourdon Press

Full text available: [pdf\(22.45 MB\)](#) Additional Information: [full citation](#), [cited by](#), [index terms](#)

14 An open-source CVE for programming education: a case study: An open-source CVE for programming education: a case study



Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: [pdf\(7.92 MB\)](#) Additional Information: [full citation](#), [references](#)

15 A taxonomy of Data Grids for distributed data sharing, management, and processing



Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

16 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2



Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

17 [Real-time shading](#)



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabilities ...

18 [A survey of peer-to-peer content distribution technologies](#)



Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(517.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

19 [Mobile services: DeltaCast: efficient file reconciliation in wireless broadcast systems](#)



Julian Chesterfield, Pablo Rodríguez

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: pdf(214.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, there has been an increasing interest in wireless broadcast systems as a means to enable scalable content delivery to large numbers of mobile users. However, gracefully

providing efficient reconciliation of different versions of a file over such broadcast channels still remains a challenge. Such systems often lack a feedback channel and consequently updates cannot be easily tailored to a specific user. Moreover, given the potentially large number of possible versions of a file, it is i ...

20 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(65.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

Results 1 - 20 of 200

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bfs and broadcast file system and set top and

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The "**AND**" operator is unnecessary -- we include all search terms by default. [\[details\]](#)

Scholar [All articles](#) [Recent articles](#) Results 1 - 10 of about 315 for **bfs and broadcast file system and set**

All Results[O Gnawali](#)[N Daswani](#)[H Garcia-Molin...](#)[B Yang](#)[D Menascé](#)

A Keyword-Set Search System for Peer-to-Peer Networks - all 15 versions »

OD Gnawali - 2002 - cs.utexas.edu

... of **broadcasting** the queries to a subset of the neighbors instead ... of as a middle groundbetween pure **BFS** and pure ... for each **set** of words in the **file**, hashes the ...Cited by 62 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Using a hierarchical file system for indexing data broadcast to a client from a network of servers - all 4 versions »

TH Addington, DL Defreese - US Patent 6,405,239, 2002 - Google Patents

... This server access network 206 couples the plurality of servers 202 and 204 to a

BFS (Broadcast File System) server 208 and to a **broadcast** delivery network210. ...Cited by 3 - [Related Articles](#) - [Web Search](#)

[PS] HFS: A flexible file system for large-scale multiprocessors - all 4 versions »

O Krieger, M Stumm - Proceedings of the DAGS/PC Symposium (The Second Annual ..., 1993 - cs.toronto.edu

... While **broadcast** is disallowed by our scalability guidelines ... of clusters, then toavoid one **BFS** from becoming a ... **File** block distribution: There have been numerous ...Cited by 21 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

System and method for providing a plurality of programming services in a television system - all 4 versions »

DF Jerding, JM Schlarb, AA Rodriguez - US Patent 6,792,616, 2004 - Google Patents

... otherwise known as the **settop** box has ... and method acquires specific **broadcast service**infor- mation by ... such **file** retrieved from abroadcast **file system ("BFS")**. ...Cited by 1 - [Related Articles](#) - [Web Search](#)

Open problems in data-sharing peer-to-peer systems - all 12 versions »

N Daswani, H Garcia-Molina, B Yang - Proceedings of the 9th International Conference on Database ..., 2003 - Springer

... not optimal: performance of directed **BFS** depends on ... server anonymity resorts to **broadcast** search, while ... that ensure availability, **file** authenticity, anonymity ...Cited by 122 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Probabilistic scalable P2P resource location services - all 5 versions »

DA Menascé, L Kanchanapalli - ACM SIGMETRICS Performance Evaluation Review, 2002 - portal.acm.org

... migrate to any node at the will of the P2P **system**. ...uses secure SHA- 1 hashes of a **file** content to ... with a certain probability, called the **broadcast** probability. ...Cited by 28 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

10/789,191

JS Weyrich, NK Gupta, R Gupta, TR Heagy, D Lutz, A ... - 2005 - freepatentsonline.com
... 1 illustrates a simplified diagram of a communications **system** 100 that is ... 105
supplies
the xOD application and data to a **broadcast file server (BFS)** 110 ...
Cached - Web Search

Cached - Web Search

Cached - Web Search

Cached - Web Search

Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

<http://scholar.google.com/scholar?q=bfs+and+broadcast+file+system+and+set+top+and+serv...> 5/12/07

? ds

Set	Items	Description
S1	424	(BFS OR BROADCAST FILE SYSTEM)
S2	0	S1 AND ((FILE? OR FOLDER?) (W) (CONTENT OR DATA OR IMAGE OR CONFIGURATION OR SERVIC?))
S3	4	S1 AND (FILE? OR FOLDER?)
S4	0	BROADCAST FILE SERVER

? t s3/medium/1-4

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3/3/1

DIALOG(R)File 8: Ei Compendex(R)

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10104255 E.I. No: EIP04458452913

Title: Design and implementation of broadcast file system based on DSM-CC data carousel protocol

Author: Zhang, Hongguang; Jiang, Tianpu; Gu, Zhiqi; Zheng, Shibao**Corporate Source:** Inst. of Image Commun./Info. Proc. Shanghai Jiao Tong University, Shanghai, China**Source:** IEEE Transactions on Consumer Electronics v 50 n 3 August 2004. p 929-933**Publication Year:** 2004**CODEN:** ITCEDA **ISSN:** 0098-3063**Language:** English

Dialog eLink:  **USPTO Full Text Retrieval Options**

3/3/2

DIALOG(R)File 8: Ei Compendex(R)

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08003438 E.I. No: EIP98044176060

Title: Human extraocular muscle spindles differ from skeletal ones

Author: Blumer, R.; Lukas, J.R.; Aigner, M.; Mayr, R.**Corporate Source:** Inst of Anatomy, Vienna, Austria**Source:** Journal of Computer-Assisted Microscopy v 8 n 4 Dec 1996. p 283-284**Publication Year:** 1996**CODEN:** JCMIEX **ISSN:** 1040-7286**Language:** English

3/3/3

DIALOG(R)File 8: Ei Compendex(R)

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04039232 E.I. Monthly No: EI8108064467 E.I. Yearly No: EI81023957

10/789,191

Title: COMBINATORIAL ASPECTS OF BALANCED FILE ORGANIZATION SCHEMES.

Author: Yamamoto, Sumiyasu; Tazawa, Shinsei

Corporate Source: Hiroshima Univ, Jpn

Source: Journal of Information Processing v 2 n 3 1979 p 127-133

Publication Year: 1979

CODEN: JIPRDE

Language: ENGLISH

Dialog eLink:

USPTO Full Text Retrieval Options

3/3/4

DIALOG(R)File 8: Ei Compendex(R)

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03477405 **E.I. Monthly No:** EI7509058132 **E.I. Yearly No:** EI75018496

Title: DESIGN OF A NEW BALANCED FILE ORGANIZATION SCHEME WITH THE LEAST REDUNDANCY.

Author: Yamamoto, Sumiyasu; Ikeda, Hideto; Shige-eda, Shinsei; Ushio, Kazuhiko; Hamada, Noboru

Corporate Source: Hiroshima Univ, Jpn

Source: Information and Control v 28 n 2 Jun 1975 p 156-175

Publication Year: 1975

CODEN: IFCNA4 **ISSN:** 0019-9958

Language: ENGLISH

? ds

Set	Items	Description
S1	464	(BFS OR BROADCAST FILE SYSTEM)
S2	0	S1 AND BROADCAST FILE SERVER?
S3	0	BROADCAST FILE SERVER
S4	0	S1 AND SET TOP BOX
S5	59	SET TOP BOX
S6	8	S1 AND (FILE? OR FOLDER?)
S7	0	S6 AND SET TOP
S8	0	S1 AND SET TOP
S9	0	S6 AND MEMORY

? t s6/medium/1-8

Dialog eLink: **USPTO Full Text Retrieval Options**

6/3/1

DIALOG(R)File 2: INSPEC

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09798441

Title: Broadcasting transport protocol in digital TV middleware**Author** Zhang Hong-guang; Zheng Shi-bao; Gu Zhi-qi**Author Affiliation:** Inst. of Image Commun. & Inf. Process., Shanghai Jiao Tong Univ., China**Journal:** Journal of Shanghai Jiaotong University vol.39, no.9 p. 1522-5, 1529**Publisher:** Shanghai Jiaotong University Press ,**Publication Date:** Sept. 2005 **Country of Publication:** China**CODEN:** SCTPDH **ISSN:** 1006-2467**SICI:** 1006-2467(200509)39:9L.1522:BTPD;1-S**Material Identity Number:** L567-2005-012**Language:** Chinese**Subfile:** B C

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6/3/2

DIALOG(R)File 2: INSPEC

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09130347 **INSPEC Abstract Number:** B2004-11-6420-016, C2004-11-7410F-029**Title: Design and implementation of broadcast file system based on DSM-CC data carousel protocol****Author** Hongguang Zhang; Tianpu Jiang; Zhiqi Gu; Shibao Zheng**Author Affiliation:** Inst. of Image Commun. & Inf. Process., Shanghai Jiao Tong Univ., China**Journal:** IEEE Transactions on Consumer Electronics vol.50, no.3 p. 929-33**Publisher:** IEEE ,**Publication Date:** Aug. 2004 **Country of Publication:** USA**CODEN:** ITCEDA **ISSN:** 0098-3063**SICI:** 0098-3063(200408)50:3L.929:DIBF;1-5

Material Identity Number: I273-2004-004
U.S. Copyright Clearance Center Code: 0098-3063/04/\$20.00
Language: English
Subfile: B C
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DIALOG(R)File 2: INSPEC

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08661782 **INSPEC Abstract Number:** A2003-15-2841-015

Title: Validation of neutron data for Pb and Bi using critical experiments

Author Tsiboulia, A.; Khomyakov, Y.; Koscheev, V.; Kochetkov, A.; Matveenkov, I.; Mikhailova, I.; Semenov, M.; Lopatkin, A.V.; Smirnov, V.S.

Author Affiliation: State Sci. Center of the Russian Federation, Inst. for Phys. & Power Eng., Obninsk, Russia

Journal: Journal of Nuclear Science and Technology **Conference Title:** J. Nucl. Sci. Technol. (Japan) suppl.2, vol.2 p. 1010-12

Publisher: Atomic Energy Soc. Japan ,

Publication Date: Aug. 2002 **Country of Publication:** Japan

CODEN: JNSTAX **ISSN:** 0022-3131

SICI: 0022-3131(200208)+2:2L.1010:VNDU;1-L

Material Identity Number: J006-2003-005

Conference Title: International Conference on Nuclear Data for Science and Technology

Conference Date: 7-12 Oct. 2001 **Conference Location:** Tsukuba, Ibaraki, Japan

Language: English

Subfile: A

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6/3/4

DIALOG(R)File 2: INSPEC

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08512001 **INSPEC Abstract Number:** C2003-03-6150N-004

Title: Practical Byzantine fault tolerance and proactive recovery

Author Castro, M.; Liskov, B.

Author Affiliation: Microsoft Res., Cambridge, UK

Journal: ACM Transactions on Computer Systems vol.20, no.4 p. 398-461

Publisher: ACM ,

Publication Date: Nov. 2002 **Country of Publication:** USA

CODEN: ACSYEC **ISSN:** 0734-2071

SICI: 0734-2071(200211)20:4L.398:PBFT;1-Y

Material Identity Number: E606-2002-005

U.S. Copyright Clearance Center Code: 0734-2071/02/1100-0398\$5.00

Language: English

Subfile: C

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6/3/5

DIALOG(R)File 2: INSPEC

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05389664 **INSPEC Abstract Number:** A9311-3115-004, C9306-7320-013

Title: Development of a restricted Hartree-Fock program INDMOL on PARAM: a highly parallel computer

Author Shirsat, R.N.; Limaye, A.C.; Gadre, S.R.

Author Affiliation: Dept. of Chem., Poona Univ., India

Journal: Journal of Computational Chemistry vol.14, no.4 p. 445-51

Publication Date: April 1993 **Country of Publication:** USA

CODEN: JCCHDD **ISSN:** 0192-8651

U.S. Copyright Clearance Center Code: 0192-8651/93/040445-07

Language: English

Subfile: A C

6/3/6

DIALOG(R)File 2: INSPEC

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03832390 **INSPEC Abstract Number:** C87017359

Title: AFS, BFS, CFS . . . or distributed file systems for UNIX

Author Barak, A.; Malki, D.; Wheeler, R.

Author Affiliation: Dept. of Comput. Sci., Hebrew Univ. of Jerusalem, Israel

Conference Title: EUUG Autumn '86 Conference Proceedings p. 461-72

Publisher: Eur. UNIX Syst. User Group, Buntingford, UK

Publication Date: 1986 **Country of Publication:** UK 499 pp.

Conference Date: 22-25 Sept. 1986 **Conference Location:** Manchester, UK

Language: English

Subfile: C

Dialog eLink:

USPTO Full Text Retrieval Options

6/3/7

DIALOG(R)File 2: INSPEC

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02551905 **INSPEC Abstract Number:** C80024265

Title: Combinatorial aspects of balanced file organization schemes

Author Yamamoto, S.; Tazawa, S.

Author Affiliation: Dept. of Math., Hiroshima Univ., Hiroshima, Japan

Journal: Journal of Information Processing vol.2, no.3 p. 127-33

Publication Date: 1979 **Country of Publication:** Japan

CODEN: JIPRDE **ISSN:** 0387-6101

Language: English

Subfile: C

Dialog eLink: **USPTO Full Text Retrieval Options**

6/3/8

DIALOG(R)File 2: INSPEC

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01797502 **INSPEC Abstract Number:** C75019276

Title: Design of a new balanced file organization scheme with the least redundancy

Author Yamamoto, S.; Ikeda, H.; Shige-eda, S.; Ushio, K.; Hamada, N.

Author Affiliation: Dept. of Math. & Computing Center, Hiroshima Univ., Hiroshima, Japan

Journal: Information and Control vol.28, no.2 p. 156-75

Publication Date: June 1975 **Country of Publication:** USA

CODEN: IFCNA4 **ISSN:** 0019-9958

Language: English

Subfile: C

? ds

Set	Items	Description
S1	0	BROADCAST FILE SERVER?
S2	591	(BFS OR BROADCAST FILE SYSTEM?)
S3	0	S2 AND SET TOP
S4	9	S2 AND (FILE? OR FOLDER?)
S5	2	S4 AND (IMAG? OR CONTENT OR SERVIC? OR CONFIGURATION)

? t s5/full/1-2

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5/9/1 (Item 1 from file: 34)

DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

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11023918 **Genuine Article#:** 598ZP **Number of References:** 72**Practical byzantine fault tolerance and proactive recovery****Author:** Castro M (REPRINT) ; Liskov B**Corporate Source:** Microsoft Res,7 JJ Thomson Ave/Cambridge CB3 0FB//England/ (REPRINT); Microsoft Res,Cambridge CB3 0FB//England/; MIT,Comp Sci Lab,Cambridge//MA/02139**Journal:** ACM TRANSACTIONS ON COMPUTER SYSTEMS , 2002 , V 20 , N4 (NOV) , P 398-461**ISSN:** 0734-2071 **Publication date:** 20021100**Publisher:** ASSOC COMPUTING MACHINERY , 1515 BROADWAY, NEW YORK, NY 10036 USA**Language:** English **Document Type:** ARTICLE**Geographic Location:** England; USA**Journal Subject Category:** COMPUTER SCIENCE, THEORY & METHODS

Abstract: Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement real services: it performs well, it is safe in asynchronous environments such as the Internet, it incorporates mechanisms to defend against Byzantine-faulty clients, and it recovers replicas proactively. The recovery mechanism allows the algorithm to tolerate any number of faults over the lifetime of the system provided fewer than 1/3 of the replicas become faulty within a small window of vulnerability. BFT has been implemented as a generic program library with a simple interface. We used the library to implement the first Byzantine-fault-tolerant NFS file system, BFS. The BFT library and BFS perform well because the library incorporates several important optimizations, the most important of which is the use of symmetric cryptography to authenticate messages. The performance results show that BFS performs 2% faster to 24% slower than production implementations of the NFS protocol that are not replicated. This supports our claim that the BFT library can be used to build practical systems that tolerate Byzantine faults.

Descriptors--Author Keywords: security ; reliability ; algorithms ; performance ; measurement ; byzantine fault tolerance ; state machine replication ; proactive recovery ; asynchronous systems ; state transfer

Identifiers-- KeyWord Plus(R): DISTRIBUTED SYSTEMS; CORRECTNESS; CONSENSUS;

AGREEMENT; PROTOCOL; SERVICES; TIME -

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 REITER MK, 1996, V22, P31, IEEE T SOFTWARE ENG
 REITER MK, 1994, P68, P 2 ACM C COMP COMM
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 RODRIGUES R, 2001, P 18 S OP SYST PRINC
 SANDBERG R, 1985, P119, P SUMM 1985 USENIX C
 SCHNEIDER F, 1982, V4, P125, ACM T PROGR LANG SYS
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5/9/2 (Item 2 from file: 34)

DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

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02285122 **Genuine Article#:** KQ595 **Number of References:** 25

**DEVELOPMENT OF A RESTRICTED HARTREE-FOCK PROGRAM INDMOL ON PARAM
- A HIGHLY PARALLEL COMPUTER**

Author: SHIRSAT RN; LIMAYE AC; GADRE SR

Corporate Source: UNIV POONA,DEPT CHEM/POONA 411007/MAHARASHTRA/INDIA/; UNIV POONA,DEPT CHEM/POONA 411007/MAHARASHTRA/INDIA/

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY , 1993 , V 14 , N4 (APR) , P 445-451

ISSN: 0192-8651

Language: ENGLISH **Document Type:** ARTICLE

Geographic Location: INDIA

Subfile: SciSearch; CC PHYS--Current Contents, Physical, Chemical & Earth Sciences

Journal Subject Category: CHEMISTRY

Abstract: Parallelization of the SCF method for closed-shell molecules on the highly parallel transputer-based system PARAM is described. The parallelization has been implemented on three different hardware and software environments: (1) a network of bare 64 transputers; (2) configuration 1 plus a back-end file system (BFS); and (3) configuration 2 with one INTEL i860 processor. The evaluation of electron repulsion integrals (ERIs) and setting up of the Fock matrix is carried out in parallel on 6.4 nodes using minimal communication strategies. A good load balance is achieved for ERI evaluation with the help of bounds, local symmetry features, and the shell concept, as well as a data

randomization technique, resulting into almost linear speedup (for ERI evaluation). In configurations 2 and 3, BFS is used for parallel storage and retrieval of ERIs. Further, in 3 matrix operations are implemented as remote procedure calls on the i860 processor. Routine techniques of level shifting and extrapolation are used for accelerating SCF convergence. The resulting package, INDMOL, has been tested for some randomly selected molecules having up to 255 contractions. Using configuration 3, a factor of 2 to 5 in computation time is obtained over 1, for the systems for which the ERIs cannot be stored in the distributed core memory. In summary, a heterogeneous system, as in configuration 3, can indeed be optimally exploited for programming peculiar diverse requirements of the SCF procedure.

Identifiers-- KeyWords Plus: 2-ELECTRON INTEGRALS; SCF

Research Fronts: 91-0352 002 (2-ELECTRON INTEGRAL DERIVATIVES; ABINITIO SCF CALCULATIONS; LARGE MOLECULES; C60 CAGE; EQUILIBRIUM GEOMETRIES; SELF-CONSISTENT FIELD; HARTREE-FOCK ENERGY)

91-0795 001 (ORGANIC SUPERCONDUCTOR KAPPA-(BEDT-TTF)₂CU[N(CN)₂]BR; SHORT INTERMOLECULAR CONTACTS OF C-H BONDS; DIMERIC BEDT-TTF SALTS)

91-6180 001 (COMPUTATIONAL QUANTUM-CHEMISTRY; RESTRICTED MOLLER-PLESSET THEORY FOR OPEN-SHELL MOLECULES; TRANSITION-METAL COMPLEXES; GAAS SURFACE PASSIVATION)

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Human extraocular muscle spindles differ from skeletal ones

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Human extraocular muscle spindles (hEOM MSps) of a 2-year old child were investigated to find out whether structural peculiarities of hEOM MSps are age-related alterations or whether they represent a normal feature in hEOMs. The bag region of the bag fibers (bFs) was short and consisted of 2 nuclei lying side by side. All bFs were enwrapped in their equatorial regions by sensory terminals and absent mostly in hEOM MSps. Chain fibers (cFs) and anomalous fibers were normal constituents of the hEOM MSps. In the equatorial regions of the MSps, the cFs had centrally located nuclei running in a file. Structural peculiarities in hEOM MSps as compared to the skeletal MSps were not aged-related alterations but they represented a specific morphology in hEOM MSps.

Descriptors: Morphology; Biological membranes; Optical microscopy; Transmission electron microscopy**Identifiers:** Extraocular muscle spindles**Subj Catg:** C 461.2, Biological Materials; C 931.2, Physical Properties of Gases, Liquids and Solids; C 741.1, Light/Optics